

SITE INSPECTION TASK WORK PLAN  
FOR  
CITY OF ATHENS LANDFILL (MALAKOFF ROAD)  
CERCLIS # TXD980626352  
ATHENS, HENDERSON COUNTY, TEXAS  
WA # 25-6JZZ

\_\_\_\_\_  
EPA Project Manager

\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Project Manager

  
\_\_\_\_\_  
Date

  
\_\_\_\_\_  
Team Leader

  
\_\_\_\_\_  
Date

9490946



SITE INSPECTION TASK WORK PLAN  
FOR  
CITY OF ATHENS LANDFILL (MALAKOFF ROAD)  
CERCLIS # TXD980626352  
ATHENS, HENDERSON COUNTY, TEXAS  
WA # 25-6JZZ  
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D.	CERCLA ELIGIBILITY QUESTIONNAIRE
E.	ADDENDUM TO HASP

**SITE INSPECTION TASK WORK PLAN FOR  
CITY OF ATHENS LANDFILL (MALAKOFF ROAD)  
CERCLIS ID# TXD980626352  
ATHENS, HENDERSON COUNTY, TEXAS  
WA # 25-6JZZ**

**1.0 INTRODUCTION**

The Fluor Daniel ARCS Team has been tasked by the U.S. Environmental Protection Agency (EPA) to develop the Site Inspection (SI) Task Work Plan and perform a Site Inspection for the City of Athens Landfill on Malakoff Road (TXD980626352), located in Athens, Henderson County, Texas.

**1.1 Site Inspection Objectives**

The Site Inspection (SI) is the second investigation stage of the pre-remedial process. Only those sites requiring further action after the SI become Expanded Site Inspection (ESI) candidates.

The SI characterizes the site by data collected from regulatory file searches and reviews, public data sources and maps, existing consultant reports, personal interviews, telephone memorandums, site reconnaissance inspections, and limited sampling (20 samples or less).

The SI evaluates the site through Hazard Ranking System (HRS) documentation. It expands upon information obtained during the Preliminary Assessment (PA), including the PA and SI Reports, HRS PreScore software, site reconnaissance inspections and analytical data. The SI Task Work Plan describes the site-specific activities and responsibilities of the field team.

**1.2 Site Description**

The City of Athens Landfill, "the site", is located at on Malakoff Road, west of the City of Athens, Henderson County,

Texas. This site is located approximately 2.5 miles west of the city on College Street (also known as Malakoff Road). The site is approximately 38 acres in size. The geographical coordinates of the site are 95°53'45" west longitude and 32°11'30" north latitude (Ref. 1). Figure 1 and 2 are presented as the Site Location Map and Site Sketch, respectively.

The City of Athens Landfill property is owned by the Henderson County Fire Chiefs Association (donated from the City of Athens) and Mr. Eldon Morris. Mr. Morris owns approximately 18 acres south of the road and lives adjacent to the southern half of the former landfill area. The area north of the road comprises the remaining 20 acres. Malakoff Road bisects the site.

Information concerning the past operations at the site is limited. The landfill operated from 1972 to 1979 under permit #263 issued by the Texas Department of Health (TDH). The landfill accepted municipal solid waste using the trench and area fill methods. There are no records to indicate that the landfill was used for the disposal of hazardous waste. The site has been inactive since 1979. The area of the former landfill has no engineered cover system, nor is it under any post closure inspection or maintenance program. The southern half of the former landfill surface has differential and area settlement creating large depressions which collect water. The southern half of the site is utilized by Mr. Morris for cattle grazing. The northern half of the site is utilized as a fire training facility.

A site reconnaissance inspection was conducted on May 5 and 6, 1993 by Mr. Mark McDonnell and Ms. Jean Koeninger of Fluor Daniel, Inc. They were accompanied by Mr. Danny Holloway of



the City of Athens Sanitation Department during the reconnaissance.

### **1.3 Site-Specific Objectives**

The primary objective of the SI is to locate and characterize any possible sources of hazardous waste on the site. An additional objective is to determine if any hazardous substances have migrated off-site into the groundwater, surface water, soil or air. Samples will be collected to characterize the sources and media that may be affected.

### **2.0 DATA REVIEW AND DATA COLLECTION**

All previously collected non-sampling data are addressed in this section. Table 1 lists the non-sampling data gaps for this SI. All field sampling will be done in accordance with the following documents:

- o "Final Project Work Plan - Revision 1 for the Site Inspection Project, EPA Region VI, Volume I", June 9, 1992, Fluor Daniel.
- o "Original Project Field Sampling Quality Assurance Project Plan for the Site Investigations, Region VI, EPA", July 5, 1992, Fluor Daniel.
- o "CLP Users Guide", EPA Region VI, not dated.
- o "Original Health and Safety Plan, Site Inspections", June 8, 1992, Fluor Daniel.

Table 2 lists the sampling locations and rationale for each sample that is proposed for the sampling inspection. Figure 3 illustrates sample locations.

## **2.1 Source Waste Characterizations**

In addition to the landfill, five additional potential hazardous waste sources have been identified at the site. These additional sources were identified during the site reconnaissance. All five are located on the northern half of the site and are believed to be related to the current fire training operations, not the landfill contents.

The five sources are a drum disposal area, a small oily sludge pond, a sludge pond runoff area, a black stained area, and an above ground fuel tank storage area. Figure 2 illustrates the location of each of these potential sources.

A total of ten soil samples will be taken from the five additional sources. Two each will be taken from the drum disposal area, small oily sludge pond and sludge pond runoff area. One each will be taken from the black stained area and above ground fuel tank storage area and one duplicate. One background sample will also be taken.

The landfill contents will be characterized with four samples during the sampling inspection. Also, the surface soils of nearest residence to the sources will be sampled within 200 feet along with one background sample.

## **2.2 Ground Water Migration Pathway**

The site is located on the undivided Wilcox Group of Eocene age. The Wilcox consists mainly of silty and sandy clay with interbedded sand, silt, clay and lignite. The Wilcox is an important regional aquifer; the largest capacity and deepest wells in Anderson, Cherokee, Freestone, and Henderson Counties produce from this unit. Sand outcrops within the Wilcox constitute recharge zones for the aquifer (Ref. 2). Surficial soils consist mainly of silty and sandy clay.

The municipal drinking water supply for the City of Athens is Lake Athens, and the city also owns 2 wells approximately 600 feet deep as a backup supply (Ref. 3). These two wells are approximately 3 miles from the site. There are no wellhead protection areas in the vicinity of the City of Athens (Ref. 4).

The Carrizo Sand is a shallow water bearing unit which is interconnected with the Wilcox. They function as a single aquifer. When these formations are tapped below the surface, water wells will yield water under artesian conditions, indicating that the water is confined.

There are two groundwater wells adjacent to the southern half of the site. Both wells are on the property of Mr. Morris and one is active. The depth of the inactive well is approximately 80 feet (static water level is 35 feet) and the depth of the active well is approximately 280 feet. During the sampling inspection, the sampling team will sample both of these wells.

An upgradient background drinking water well is available 0.45 miles east of the site. This well will also be sampled as part of the sampling inspection. The analytical results of the well sampling program will characterize possible ground water contamination.

### **2.3 Surface Water Migration Pathway**

The surface water migration pathway has been eliminated from further consideration. The distance to surface water is greater than two miles. Runoff from the landfill surface enters an unnamed intermittent stream along the east edge of the site and empties into Walnut Creek which is also an intermittent stream (Ref. 5). The annual precipitation is

40.5 inches.

#### **2.4 Soil Exposure Pathway**

The surface soils appear to have been impacted by fire training operations and/or drum and fuel storage and disposal at all five identified source areas. None of the former landfill area has an engineered and maintained cover system. No evidence of waste sources were observed during the site reconnaissance related to the landfill contents. The size of each source area will be measured during the sampling inspection.

There are no schools or daycare centers in the vicinity of the site. The distance from the sources to the nearest residence will be measured during the sampling inspection. The population within each target distance limit is presented in Attachment C.

The contamination present at each source is unknown, although observations made during the site reconnaissance indicated that the contamination to be oily and/or organic chemically based. A telephone conversation with City of Athens Fire Department personnel indicates that some the drums and fuel storage tanks contained contaminated gasoline and diesel (Ref. 6). One of the drums was labeled "distillate".

#### **2.5 Air Migration Pathway**

It is possible that the sources present at the site could cause air emissions. No control measures are currently in place, and the sources are sparsely vegetated or not at all. No releases of hazardous substances or reports of adverse health effects have been documented. Although there will be no air sampling as part of the SI, the potential to release

will be evaluated. The population within each target distance limit is shown in Attachment C.

### **3.0 PROJECT MANAGEMENT**

Key personnel, level of effort, and project schedule are addressed in this section.

#### **Key Personnel**

The Project Manager is Mr. Jonathan Stewart. He will be responsible for all technical, cost, schedule, and Quality Control.

The Site Manager is Mr. Mark Mc Donnell. He will be responsible for obtaining site access, performing site reconnaissance, directing all activities, and preparing the final report.

The Site Safety Officer will be Mr. Doug Cheek. Ms. Debbie Kading will be responsible for coordinating all the sample documentation, including the CLP paperwork.

The sampling will be conducted on June 28, 1993.

### **4.0 REFERENCES**

1. City of Athens Landfill Site Reconnaissance conducted on May 5 and 6, 1993 by Mr. Mark A. McDonnell and Ms. Jean Koeninger of Fluor Daniel.
2. Letter dated October 2, 1978 from Mr. Jerry W. Mullican of the Texas Department of Water Resources to Mr. Jack Carmichael of the Texas Department of Water Resources.
3. Texas Natural Resource Information Database, Groundwater Quality

Database for Henderson County, April 8, 1993.

4. Telephone Memorandum of May 7, 1993 between Mr. Mark A. McDonnell of Fluor Daniel and Mr. David Terry of the TWC.
5. United States Department of Interior, Geologic Survey, 7.5 Minute Series Topographic Map for Mallard Hill, Texas, Provisional Edition, 1984.
6. Fluor Daniel Record of Telephone Conversation between Mr. Mark A. McDonnell and Mr. Wayne Padgett of the City of Athens Fire Department.

## **TABLES**

**TABLE 1**  
**NON-SAMPLING DATA GAPS**



## **TABLES**

**TABLE 1**  
**NON-SAMPLING DATA GAPS**

**TABLE 1**  
**NON-SAMPLING DATA GAPS**

- Distance from Mr. Morris' residence to the edge of the landfill and previously defined sources.
- The hazardous waste quantity of each of the defined sources.
- For the soil exposure pathway, determine if resources or terrestrial sensitive environments are in an area of observed contamination.

**TABLE 2**  
**SAMPLING LOCATIONS AND RATIONALE**

**TABLE 2**  
**SAMPLING LOCATIONS AND RATIONALE**

<b>SAMPLE NUMBER</b>	<b>SAMPLE LOCATION AND RATIONALE</b>
1	Low concentration groundwater sample from 80 foot deep well on Mr. Morris' property (abandoned well).  <b><u>Rationale:</u></b> To document a potential to release to groundwater.
2	Duplicate of Sample No. 1.
3	Low concentration groundwater sample from 280 foot water well on Mr. Morris property (active well).  <b><u>Rationale:</u></b> To document potential drinking water source contamination.
4	Additional low concentration groundwater sample from well 0.45 miles east of the site.  <b><u>Rationale:</u></b> To determine background concentrations in Carrizo-Wilcox aquifer.
5	Low concentration soil sample from the above ground fuel tank storage area.  <b><u>Rationale:</u></b> To characterize this potential source.
6	Duplicate of No. 5.
7	Low concentration soil sample from black stained area.  <b><u>Rationale:</u></b> To characterize this potential source.
8	Low concentration soil sample from drum disposal area.  <b><u>Rationale:</u></b> To characterize this potential source.
9	Low concentration soil sample from drum disposal area.  <b><u>Rationale:</u></b> This additional sample is needed due to the size of the drum disposal area.

- 10 Low concentration soil sample from the small oily sludge pond.
- Rationale:** To characterize this potential source.
- 11 Low concentration soil sample from the small oily sludge pond.
- Rationale:** This additional sample is needed due to the size of the small oily sludge pond.
- 12 Low concentration soil sample from the sludge pond runoff area.
- Rationale:** To characterize this potential source.
- 13 Low concentration soil sample from the sludge pond runoff area.
- Rationale:** This additional sample is needed due to the size of the sludge pond runoff area.
- 14 Low concentration soil sample upslope from all five sources.
- Rationale:** Background concentrations in soil.
- 15 Low concentration soil sample from 2 to 3 feet deep along the bottom edge of the landfill cell on the southern half of the site.
- Rationale:** To characterize the landfill contents.
- 16 Low concentration soil sample from 2 to 3 feet deep along the bottom edge of the landfill cell on the southern half of the site.
- Rationale:** This additional sample is needed due to the size of the former landfill area for source characterization.
- 17 Low concentration soil sample from 2 to 3 feet deep along the bottom edge of the landfill cell on the southern half of the site.
- Rationale:** This additional sample is needed due to the size of the former landfill area for source characterization.
- 18 Low concentration soil sample from 2 to 3 feet deep

**Rationale:** This additional sample is needed due to the size of the former landfill area.

- Rationale:** Below surface background soil concentration sample.

- Rationale:** To determine if there is a resident population threat.

H:\06635324\230\TASKWORK.PLA

## FIGURES



**FIGURE 1**  
**SITE LOCATION MAP**



U.S.G.S. 7.5 MIN. TOPOGRAPHIC MAP  
STOCKARD QUADRANGLE

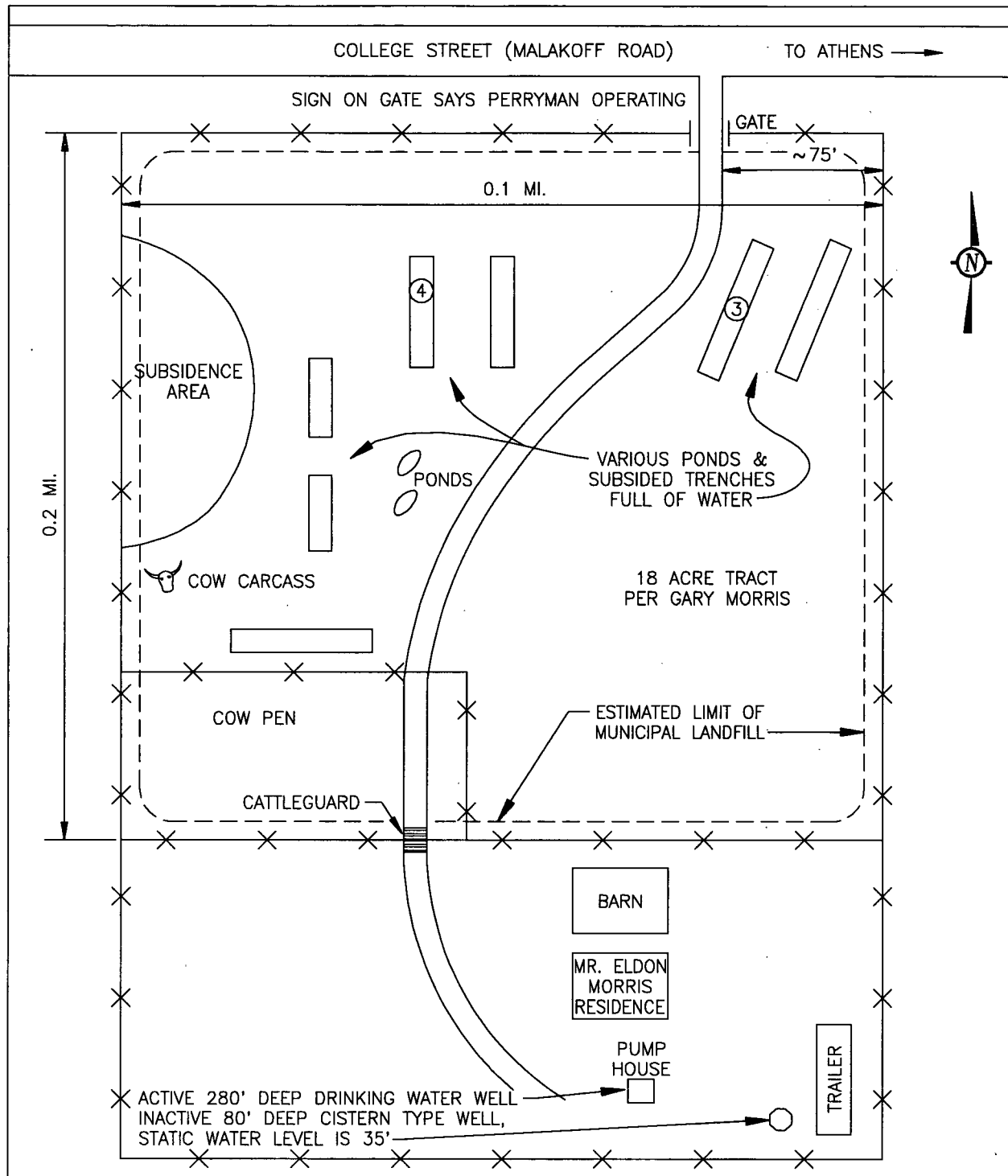


**FIGURE 1**  
SITE LOCATION MAP  
CITY OF ATHENS LANDFILL (MALAKOFF ROAD)  
ATHENS, TEXAS

CAD FILE No.

LOC-MAP

**FIGURE 2**  
**SITE SKETCH**



**LEGEND:**

- STRUCTURE
- ROAD
- FENCE
- CISTERN TYPE WELL
- ③ PHOTO LOCATIONS

NOT TO SCALE



**FIGURE 2A**  
SITE SKETCH  
CITY OF ATHENS (MALAKOFF ROAD)  
SOUTHERN HALF OF THE SITE  
ATHENS, TEXAS

CAD FILE No.

FIG-2A

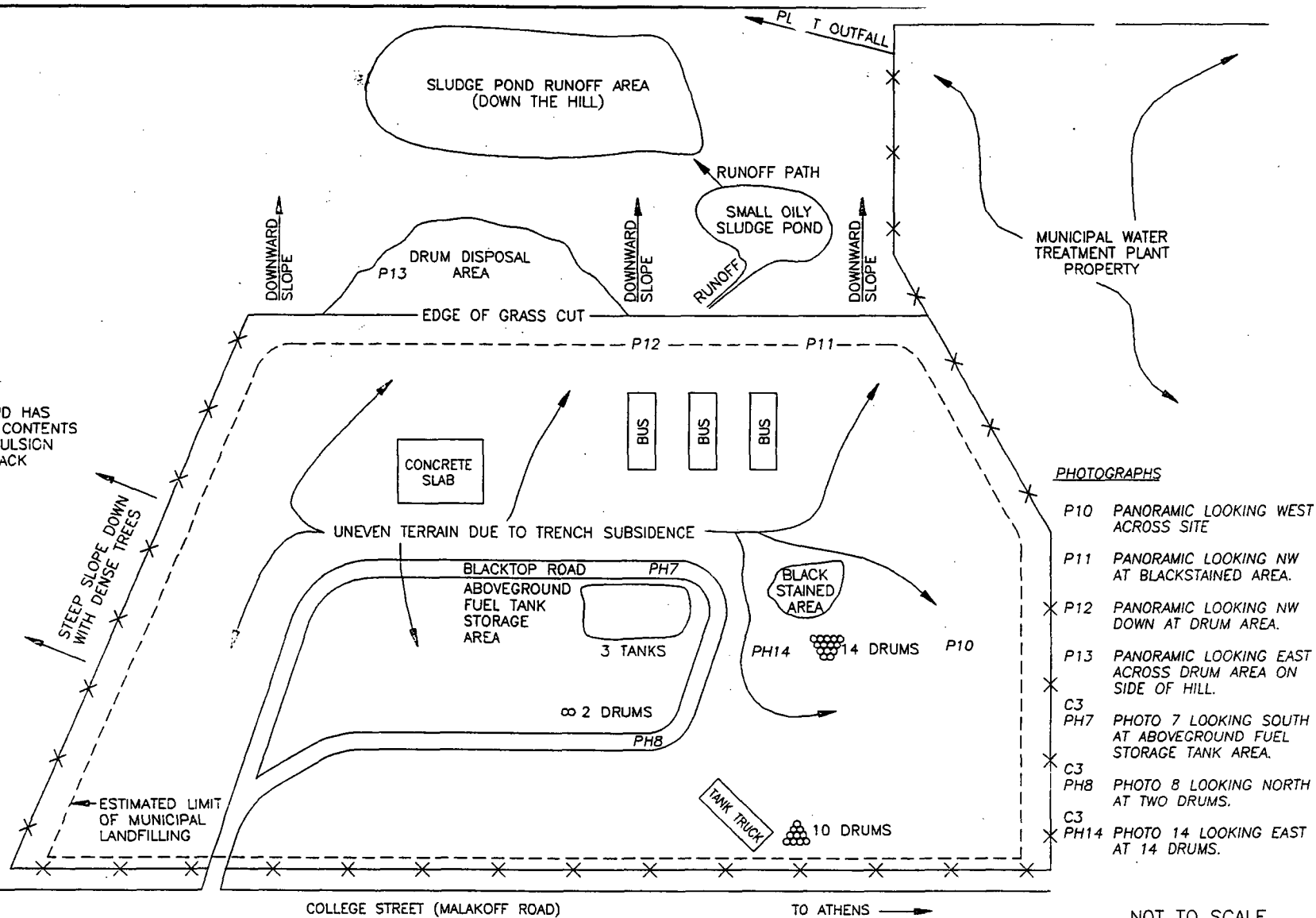


**LEGEND:**

- STRUCTURE
- ROAD
- \*\*\* FENCE

**NOTE:**

SMALL OILY SLUDGE POND HAS UNKNOWN OILY CHEMICAL CONTENTS ORANGE AND YELLOW EMULSION FULL OF WATER WITH BLACK STAINING ON EDGES.



**PHOTOGRAPHS**

- P10 PANORAMIC LOOKING WEST ACROSS SITE
- P11 PANORAMIC LOOKING NW AT BLACKSTAINED AREA.
- P12 PANORAMIC LOOKING NW DOWN AT DRUM AREA.
- P13 PANORAMIC LOOKING EAST ACROSS DRUM AREA ON SIDE OF HILL.
- C3 PH7 PHOTO 7 LOOKING SOUTH AT ABOVEGROUND FUEL STORAGE TANK AREA.
- C3 PH8 PHOTO 8 LOOKING NORTH AT TWO DRUMS.
- C3 PH14 PHOTO 14 LOOKING EAST AT 14 DRUMS.

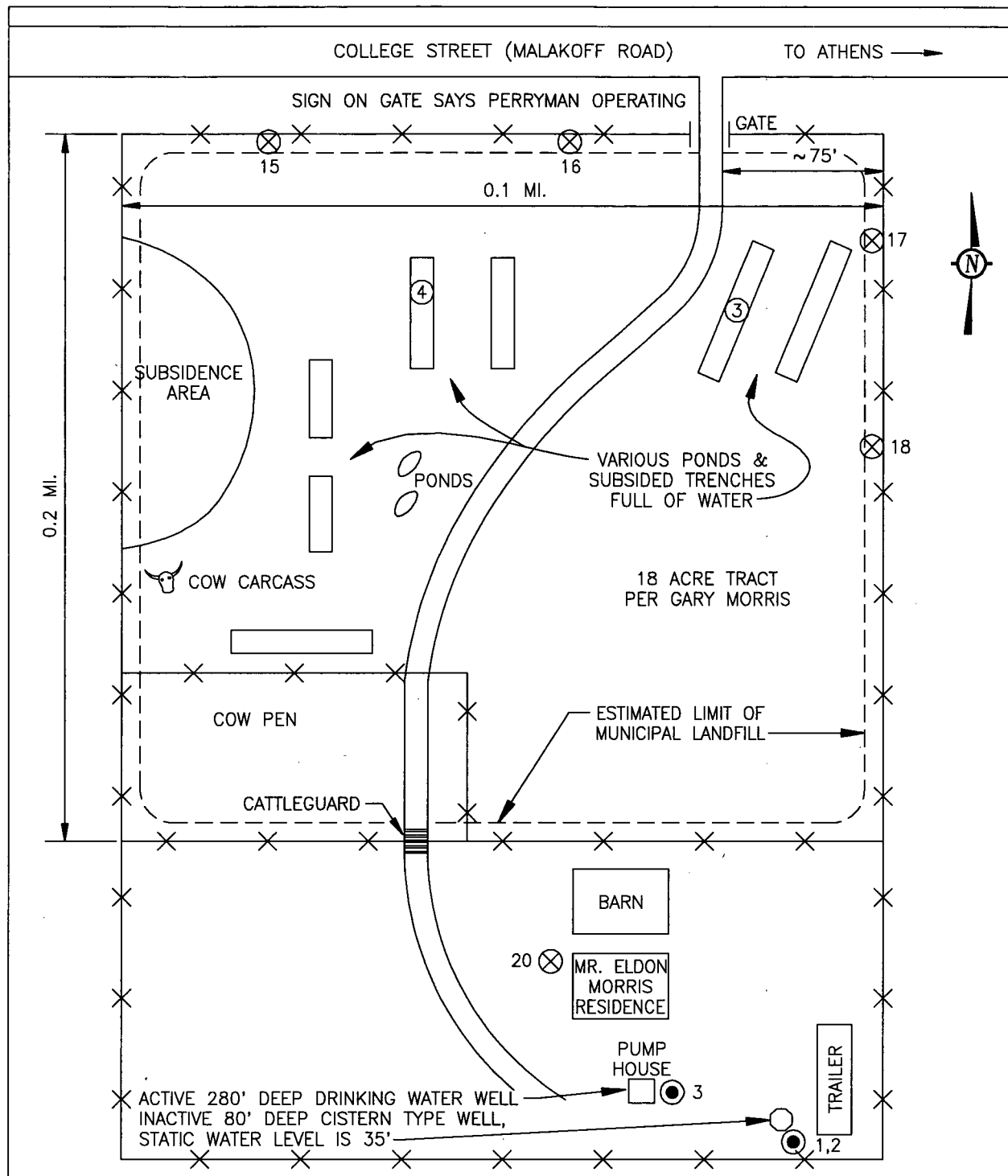
NOT TO SCALE



**FIGURE 2A**  
SITE SKETCH  
CITY OF ATHENS LANDFILL (MALAKOFF ROAD)  
NORTHERN HALF OF SITE  
ATHENS, TEXAS

CAD FILE No. FIG-2A

**FIGURE 3**  
**SAMPLING LOCATION MAP**



**LEGEND:**

- STRUCTURE
- ROAD
- FENCE
- CISTERN TYPE WELL
- 3 PHOTO LOCATIONS
- GROUNDWATER SAMPLE
- x SOIL SAMPLE

NOT TO SCALE



**FIGURE 3A**  
SAMPLING LOCATION MAP  
CITY OF ATHENS (MALAKOFF ROAD)  
SOUTHERN HALF OF THE SITE  
ATHENS, TEXAS

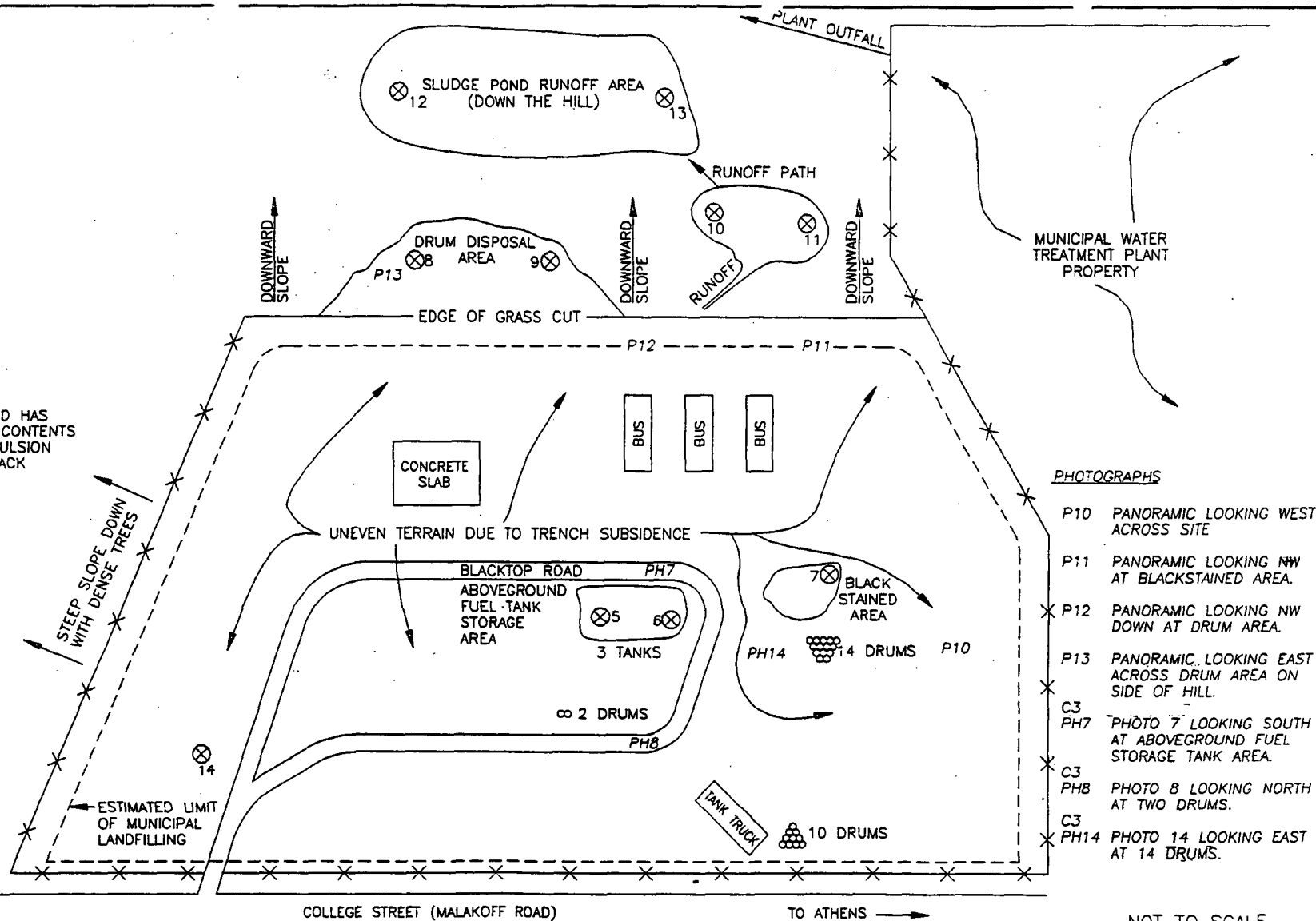


**LEGEND:**

- STRUCTURE
- ROAD
- \*\*\* FENCE
- ⊗ SOIL SAMPLE

**NOTE:**

SMALL OILY SLUDGE POND HAS UNKNOWN OILY CHEMICAL CONTENTS ORANGE AND YELLOW EMULSION FULL OF WATER WITH BLACK STAINING ON EDGES.



**PHOTOGRAPHS**

- P10 PANORAMIC LOOKING WEST ACROSS SITE
- P11 PANORAMIC LOOKING NW AT BLACKSTAINED AREA.
- P12 PANORAMIC LOOKING NW DOWN AT DRUM AREA.
- P13 PANORAMIC LOOKING EAST ACROSS DRUM AREA ON SIDE OF HILL.
- C3 PH7 PHOTO 7 LOOKING SOUTH AT ABOVEGROUND FUEL STORAGE TANK AREA.
- C3 PH8 PHOTO 8 LOOKING NORTH AT TWO DRUMS.
- C3 PH14 PHOTO 14 LOOKING EAST AT 14 DRUMS.

NOT TO SCALE



**FIGURE 3A**  
SAMPLING LOCATION MAP  
CITY OF ATHENS LANDFILL (MALAKOFF ROAD)  
NORTHERN HALF OF SITE  
ATHENS, TEXAS



## **ATTACHMENTS**

**ATTACHMENT A**  
**SITE PHOTOGRAPHS**

**City of Athens Landfill**

**Site Reconnaissance Photographs**

**Prepared by Fluor Daniel, Inc.**

**May 13, 1993**

City of Athens Landfill

Malakoff Road

North Half of Site

TXD980626352

Henderson County, Texas

Site Reconnaissance Photographs

Camera 1  
Photo No.  
2



Site Name:

City of Athens Landfill

CERCLIS # TXD980626352

Photographer/Witness

Mark A. McDonnell / Jean Koeninger

Location:

Date

May 5, 1993

Time 4:05 p.m.

Direction South

Athens, Texas

Description

Northern half of the site. View of the west edge of the property.

Project #:

WA #25-6JZZ

Camera 1  
Photo No.  
1



Page 1

Photographer/Witness

Mark A. McDonnell / Jean Koeninger

Date

May 5, 1993

Time 4:05 p.m.

Direction South

Description

Northern half of site. View of property entrance from west edge.

Camera 2

Photo No.

24



Site Name:

City of Athens Landfill

CERCLIS # TXD980626352

Photographer/Witness

Mark A. McDonnell / Jean Koeninger

Location:

Date

May 5, 1993

Time 4:15 p.m.

Direction East

Athens, Texas

Description

Northern half of the site. View of the fire training facilities from near the entrance.

Project #:

WA #25-6JZZ

Camera 2

Photo No.

23



Page 2

Photographer/Witness

Mark A. McDonnell / Jean Koeninger

Date

May 5, 1993

Time 4:15 p.m.

Direction East

Description

Northern half of the site. View of the fire training facilities from near the entrance.



Camera 2

Photo No.

21



Site Name:

City of Athens Landfill

CERCLIS # TXD980626352

Photographer/Witness

Mark A. McDonnell / Jean Koeninger

Location:

Date

May 5, 1993

Time 4:15 p.m.

Direction North

Athens, Texas

Description

Northern half of the site. View of the fire training facilities from near the entrance.

Project #:

WA #25-6JZZ

Camera 2

Photo No.

20



Page 3

Photographer/Witness

Mark A. McDonnell / Jean Koeninger

Date

May 5, 1993

Time 4:15 p.m.

Direction Northwest

Description

Northern half of the site. View of the fire training facilities from near the entrance.

Camera 2

Photo No.

19



Site Name:

City of Athens Landfill

CERCLIS # TXD980626352

Photographer/Witness

*mm.* *JK*  
Mark A. McDonnell / Jean Koeninger

Location:

Date

May 5, 1993

Time 4:15 p.m.

Direction Northwest

Athens, Texas

Description

Northern half of the site. View of the fire training facilities from near the entrance.

Project #:

WA #25-6JZZ

Camera 2

Photo No.

18



Page 4

Photographer/Witness

*mm.* *JK*  
Mark A. McDonnell / Jean Koeninger

Date

May 5, 1993

Time 4:15 p.m.

Direction Northwest

Description

Northern half of the site. View of the fire training facilities from near the entrance.



Camera 2

Photo No.

17



Site Name:

City of Athens Landfill

CERCLIS # TXD980626352

Photographer/Witness

*mm.* *jk*  
Mark A. McDonnell / Jean Koeninger

Location:

Date

May 5, 1993

Time 4:30 p.m.

Direction Down

Athens, Texas

Description

Northern half of the site. View of the drum disposal area along the northern edge of the landfill limits.

Project #:

WA #25-6JZZ

Camera 2

Photo No.

16



Page 5

Photographer/Witness

*mm.* *jk*  
Mark A. McDonnell / Jean Koeninger

Date

May 5, 1993

Time 4:30 p.m.

Direction North

Description

Northern half of the site. View of the drum disposal area along the northern edge of the landfill limits.



Camera 2  
Photo No.  
15



Site Name:

City of Athens Landfill

CERCLIS # TXD980626352

Photographer/Witness

*mm.* *gn*  
Mark A. McDonnell / Jean Koeninger

Location:

Date

May 5, 1993

Time 4:30 p.m.

Direction North

Athens, Texas

Description

Northern half of the site. View of the drum disposal area along the northern edge of the landfill limits.

Project #:

WA #25-6JZZ

Camera 2  
Photo No.  
14



Page 6

Photographer/Witness

*mm.* *gn*  
Mark A. McDonnell / Jean Koeninger

Date

May 5, 1993

Time 4:30 p.m.

Direction North

Description

Northern half of the site. View of the drum disposal area along the northern edge of the landfill limits.



Camera 2

Photo No.

13



Site Name:

City of Athens Landfill

CERCLIS # TXD980626352

Photographer/Witness

*mm* *gn*  
Mark A. McDonnell / Jean Koeninger

Location:

Date

May 5, 1993

Time 4:30 p.m.

Direction Down

Athens, Texas

Description

Northern half of the site. View of buried drums along the northern edge of the landfill limits.

Project #:

WA #25-6JZZ

Camera 2

Photo No.

12



Page 7

Photographer/Witness

*mm* *gn*  
Mark A. McDonnell / Jean Koeninger

Date

May 5, 1993

Time 4:30 p.m.

Direction Down

Description

Northern half of the site. View of buried drums along the northern edge of the landfill limits.



Camera 2  
Photo No.  
11



Site Name:

City of Athens Landfill

CERCLIS # TXD980626352

Photographer/Witness

*mm.* *JK*  
Mark A. McDonnell / Jean Koeninger

Location:

Date

May 5, 1993

Time 4:30 p.m.

Direction West

Athens, Texas

Description

Northern half of the site. View of empty and partially filled drums along the northern edge of the landfill limits.

Project #: WA #25-6JZZ

Camera 2  
Photo No.  
10



Page 8

Photographer/Witness

*mm.* *JK*  
Mark A. McDonnell / Jean Koeninger

Date

May 5, 1993

Time 4:30 p.m.

Direction North

Description

Northern half of the site. View of empty and partially filled drums along the northern edge of the landfill limits.



Camera 2

Photo No.

9



Site Name:

City of Athens Landfill

CERCLIS # TXD980626352

Photographer/Witness

Mark A. McDonnell / Jean Koeninger

Location:

Date

May 5, 1993

Time 4:30 p.m.

Direction East

Athens, Texas

Description

Northern half of the site. View of empty and partially filled drums along the northern edge of the landfill limits.

Project #: WA #25-6JZZ

Camera 3

Photo No.

24



Page 9

Photographer/Witness

Mark A. McDonnell / Jean Koeninger

Date

May 6, 1993

Time 10:15 a.m.

Direction West

Description

Northern half of the site. View of northwest corner of former landfill area. Note uneven terrain due to differential settlement.



Camera 3

Photo No.

23



Site Name:

City of Athens Landfill

CERCLIS # TXD980626352

Photographer/Witness

*mm* *gn*  
Mark A. McDonnell / Jean Koeninger

Location:

Date

May 6, 1993

Time 10:15 a.m.

Direction East

Athens, Texas

Description

Northern half of the site. View of north edge of former landfill area.

Project #:

WA #25-6JZZ

Note slope dropoff on left.

Camera 3

Photo No.

22



Page 10

Photographer/Witness

*mm* *gn*  
Mark A. McDonnell / Jean Koeninger

Date

May 6, 1993

Time 10:15 a.m.

Direction North

Description

Northern half of the site. View of north edge of former landfill area.

Drum disposal area is over the edge in the tall grass.



Camera 3

Photo No.

21



Site Name:

City of Athens Landfill

CERCLIS # TXD980626352

Photographer/Witness

*mm.* *gh*  
Mark A. McDonnell / Jean Koeninger

Location:

Date

May 6, 1993

Time 10:30 a.m.

Direction Southwest

Athens, Texas

Description

Northern half of the site. View of stained runoff path leading to small oily sludge pond.

Project #: WA #25-6JZZ

Camera 3

Photo No.

20



Page 11

Photographer/Witness

*mm.* *gh*  
Mark A. McDonnell / Jean Koeninger

Date

May 6, 1993

Time 10:30 a.m.

Direction Southwest

Description

Northern half of the site. View of stained runoff path leading to small oily sludge pond.



Camera 3

Photo No.

19



Site Name:

City of Athens Landfill

CERCLIS # TXD980626352

Photographer/Witness

*mm.* *jm*  
Mark A. McDonnell / Jean Koeninger

Location:

Date

May 6, 1993

Time 10:30 a.m.

Direction Down

Athens, Texas

Description

Northern half of the site. View of stained runoff path leading to small oily sludge pond.

Project #:

WA #25-6JZZ

Camera 3

Photo No.

18



Page 12

Photographer/Witness

*mm.* *jm*  
Mark A. McDonnell / Jean Koeninger

Date

May 6, 1993

Time 10:30 a.m.

Direction Northwest

Description

Northern half of the site. Small oily sludge pond below northern edge of former landfill area.



Camera 3

Photo No.

17



Site Name:

City of Athens Landfill

CERCLIS # TXD980626352

Photographer/Witness

*mm*  
Mark A. McDonnell / *JK*  
Jean Koeninger

Location:

Date

May 6, 1993

Time 10:30 a.m.

Direction Northwest

Athens, Texas

Description

Northern half of the site. Small oily sludge pond below northern edge of former landfill area.

Project #: WA #25-6JZZ

Camera 3

Photo No.

16



Page 13

Photographer/Witness

*mm*  
Mark A. McDonnell / *JK*  
Jean Koeninger

Date

May 6, 1993

Time 10:30 a.m.

Direction North

Description

Northern half of the site. Small oily sludge pond below northern edge of former landfill area.



Camera 3

Photo No.

15



Site Name:

City of Athens Landfill

CERCLIS # TXD980626352

Photographer/Witness

*mm* *gn*  
Mark A. McDonnell / Jean Koeninger

Location:

Date

May 6, 1993

Time 10:30 a.m.

Direction Down

Athens, Texas

Description

Northern half of the site. Small oily sludge pond below northern edge of former landfill area.

Project #:

WA #25-6JZZ

Camera 3

Photo No.

14



Photographer/Witness

*mm* *gn*  
Mark A. McDonnell / Jean Koeninger

Date

May 6, 1993

Time 10:45 a.m.

Direction West

Description

Northern half of the site. View of black stained areas covered by grass.



Camera 3

Photo No.

13



Site Name:

City of Athens Landfill

CERCLIS # TXD980626352

Photographer/Witness

*mm* *gn*  
Mark A. McDonnell / Jean Koeninger

Location:

Date

May 6, 1993

Time 10:45 a.m.

Direction East

Athens, Texas

Description

Northern half of the site. View of 14 drums on east side of the property.

Project #:

WA #25-6JZZ

Camera 3

Photo No.

12



Page

15

Photographer/Witness

*mm* *gn*  
Mark A. McDonnell / Jean Koeninger

Date

May 6, 1993

Time 10:45 a.m.

Direction Southwest

Description

Northern half of the site. Closeup of 14 drums.



Camera 3

Photo No.

11



Site Name:

City of Athens Landfill

CERCLIS # TXD980626352

Photographer/Witness

Mark A. McDonnell / Jean Koeninger

Location:

Date

May 6, 1993

Time 10:45 a.m.

Direction South

Athens, Texas

Description

Northern half of the site. Closeup of 14 drums.

Project #:

WA #25-6JZZ

Camera 3

Photo No.

10



Page 16

Photographer/Witness

Mark A. McDonnell / Jean Koeninger

Date

May 6, 1993

Time 10:45 a.m.

Direction West

Description

Northern half of the site. Closeup of 14 drums.



Camera 3

Photo No.

9



Site Name:

City of Athens Landfill

CERCLIS # TXD980626352

Photographer/Witness

Mark A. McDonnell / Jean Koeninger

Location:

Date

May 6, 1993

Time 11:00 a.m.

Direction South

Athens, Texas

Description

Northern half of the site. View of 10 drums along south edge of the property.

Project #:

WA #25-6JZZ

Camera 3

Photo No.

8



Page 17

Photographer/Witness

Mark A. McDonnell / Jean Koeninger

Date

May 6, 1993

Time 11:00 a.m.

Direction North

Description

Northern half of the site. View of 2 additional drums.

Camera 3

Photo No.

7



Site Name:

City of Athens Landfill

CERCLIS # TXD980626352

Photographer/Witness

*mm* *gn*  
Mark A. McDonnell / Jean Koeninger

Location:

Date

May 6, 1993

Time 11:05 a.m.

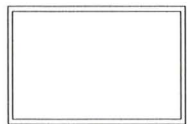
Direction Southeast

Athens, Texas

Description

Northern half of the site. Fuel tank storage area. Soil in area of tanks is stained.

Project #: WA #25-6JZZ



Photographer/Witness

Date

Description





Site Name: City of Athens Landfill

CERCLIS #980626352

Photographer/Witness man gn  
Mark A. McDonnell/Jean Koeninger

Date May 6, 1993

Time 10:15 a.m.

Direction

Northeast

Description Northern half of the site. View of drum disposal area.





Site Name: City of Athens Landfill

CERCLIS #980626352

Photographer/Witness Mark A. McDonnell/Jean Koeninger

Date May 6, 1993

Time 10:30 a.m.

Direction West

Description Northern half of the site. View of drum disposal area along northern edge  
of former landfill area.

Page 20





Site Name: City of Athens Landfill

CERCLIS #980626352

Photographer/Witness *mam*  
Mark A. McDonnell/Jean Koeninger

Date May 6, 1993

Time 10:45 a.m.

Direction

West

Description Northern half of the site. View of stained area below small oily sludge pond.



Site Name: City of Athens Landfill

CERCLIS #980626352

Photographer/Witness *mam.*  
Mark A. McDonnell/Jean Koeninger

Date May 6, 1993

Time 10:50 a.m.

Direction

West

Description Northern half of the site. Panoramic view of former landfill area which  
is now a fire training facility.

Page

22

City of Athens Landfill

Malakoff Road

South Half of Site

TXD980626352

Henderson County, Texas

Site Reconnaissance Photographs



Camera 2

Photo No.

8



Site Name:

City of Athens Landfill

CERCLIS # TXD980626352

Photographer/Witness

*mm* *gn*  
Mark A. McDonnell / Jean Koeninger

Location:

Date

May 6, 1993

Time 9:30 a.m.

Direction South

Athens, Texas

Description

Southern half of the site. Abandoned shallow water well on the property of Mr. Eldon Morris. Water level at approximately 35 feet.

Project #:

WA #25-6JZZ

Camera 2

Photo No.

7



Page 1

Photographer/Witness

*mm* *gn*  
Mark A. McDonnell / Jean Koeninger

Date

May 6, 1993

Time 9:30 a.m.

Direction Down

Description

Southern half of the site. Abandoned shallow water well on the property of Mr. Eldon Morris. Water level at approximately 35 feet.



Camera 2

Photo No.

6



Site Name:

City of Athens Landfill

CERCLIS # TXD980626352

Photographer/Witness

Mark A. McDonnell / Jean Koeninger

Location:

Date

May 6, 1993

Time 9:35 a.m.

Direction West

Athens, Texas

Description

Southern half of the site. Active deep water well and pumphouse on the property of Mr. Eldon Morris. Well depth approximately 300 feet.

Project #: WA #25-6JZZ

Camera 2

Photo No.

5



Page 2

Photographer/Witness

Mark A. McDonnell / Jean Koeninger

Date

May 6, 1993

Time 9:35 a.m.

Direction West

Description

Southern half of the site. Active deep water well and pumphouse on the property of Mr. Eldon Morris. Well depth approximately 300 feet.

Camera 2

Photo No.

4



Site Name:

City of Athens Landfill

CERCLIS # TXD980626352

Photographer/Witness

*mm* *gn*  
Mark A. McDonnell / Jean Koeninger

Location:

Date

May 6, 1993

Time 9:40 a.m.

Direction West

Athens, Texas

Description

Southern half of the site. View from road that divides the property  
looking at cows grazing.

Project #: WA #25-6JZZ

Camera 2

Photo No.

3



Page 3

Photographer/Witness

*mm* *gn*  
Mark A. McDonnell / Jean Koeninger

Date

May 6, 1993

Time 9:40 a.m.

Direction Northwest

Description

Southern half of the site. View from road that divides the property  
looking at cows grazing.



Camera 2

Photo No.

2



Site Name:

City of Athens Landfill

CERCLIS # TXD980626352

Photographer/Witness

*mm* Mark A. McDonnell / *gn* Jean Koeninger

Location:

Date

May 6, 1993

Time 9:50 a.m.

Direction North

Athens, Texas

Description

Southern half of the site. View of trench differential settlement looking at northeast corner of property.

Project #: WA #25-6JZZ

Camera 2

Photo No.

1



Page 4

Photographer/Witness

*mm* Mark A. McDonnell / *gn* Jean Koeninger

Date

May 6, 1993

Time 9:50 a.m.

Direction North

Description

Southern half of the site. View of trench differential settlement looking at north central edge of property. Fire training area in background.



Site Name: City of Athens Landfill

CERCLIS #980626352

Photographer/Witness <sup>*mam.*</sup> *Mark A. McDonnell* / *Jean Koeninger*

Date May 6, 1993

Time 9:30 a.m.

Direction

North

Description Southern half of the site. View of former landfill area.





Site Name: City of Athens Landfill

CERCLIS #980626352

Photographer/Witness MA M.  
Mark A. McDonnell/Jean Koeninger

Date May 6, 1993

Time 9:40 a.m.

Direction

North

Description Southern half of the site. View of former landfill area exhibiting  
differential settlement of trenches and water ponding.

**ATTACHMENT B**  
**CLP SAMPLE REQUEST FORM**

**Superfund Drinking Water  
Sample Request**

To schedule space at the EPA Houston Branch Laboratory for Drinking Water samples, please forward completed form to Lisa Feldman (LFELDMAN) via WPOffice, or by FAX 713-983-2124. The laboratory requires at least a 2 week lead time for scheduling. The routine turnaround for drinking water samples is 30 days.

If sampling is postponed or cancelled please notify Lisa at 713-983-2129 or via WPOffice.

Site Name: CITY OF ATHENS LANDFILL Location: ATHENS, TEXAS CERCLIS #: TXD 980626352

Type of Investigation: ☒ SSI ☐ ESI ☐ HRS ☐ RI/FS ☐ Other \_\_\_\_\_

EPA Site Manager: \_\_\_\_\_ Mail Code: \_\_\_\_\_ Phone #: \_\_\_\_\_

Sampling Company: FLUOR DANIEL Shipping Date: 6/30/93

Is this activity: ☒ Superfund Lead ☐ PRP Lead ☐ State Lead (Specify) \_\_\_\_\_ ☐ Other \_\_\_\_\_

Field Contract (Superfund lead only): ☒ ARCS ☐ TES ☐ Other \_\_\_\_\_

Requested Parameter	Number of DW Samples
TCL Organics (All fractions)	4
VOA fraction	
BNA fraction	
PEST/PCB fraction	
TAL Metals and Cyanide	
TAL Metals only	4
Alkalinity/Hardness	
Other Inorganics (specify)	

Note: All communication with the EPA Houston Lab should be through the EPA Site Manager.

**ATTACHMENT C**  
**SITE EVALUATION CHECKLIST**

### EVALUATION CHECKLIST

**NOTE:** Information must be referenced; attach a list of references.

**Site Name:** City of Athens Landfill (Malakoff Road)

**TDD No.:** TXD 980626352

**Reference No.:**

#### **1. SOURCE AREAS, CONTAINMENT, WASTE QUANTITY**

Complete the following for each area where hazardous substances have been deposited, stored, disposed of, or placed, plus those soils that have become contaminated from migration of a hazardous substance.

(refer to Table 1, and Tables 2-5, 3-2, 4-2, 6-3 and 6-9)

<u>Source Area</u>	<u>Containment</u>	<u>Waste Quantity</u>
Drum Disposal Area	None	Unknown*
Small Oily Sludge Pond	None	Unknown*
Sludge Pond Runoff Area	None	Unknown*
Black Stained Area	None	Unknown*
Above Ground Fuel Tank Storage Area	None	Unknown*

\* Size and/or volume of each source will be measured during the sampling inspection.

Reference 1.

## 2. AVAILABLE ANALYTICAL DATA

For the media listed below, note if there is a documented observed release or the potential to release to that media. An observed is noted if a hazardous substance is detected at three times the background sample concentration or background sample quantitation limit. A potential to release is noted if wastes were disposed of in a source area which would allow contaminant migration. (refer to PA Data and Rescoring Record Table for additional criteria).

<u>Media</u>	<u>Potential to Release</u>	<u>Observed Release</u>	<u>Comments</u>
Groundwater	<u>X</u>	<u></u>	<u></u>
Surface Water	<u>X</u>	<u></u>	<u></u>
Sediment	<u></u>	<u></u>	<u></u>
Soil < 2 feet deep	<u>X</u>	<u></u>	<u></u>
Soil > 2 feet deep	<u>X</u>	<u></u>	<u></u>
Air	<u>X</u>	<u></u>	<u></u>
Other (specify, e.g., sludge, source)	<u></u>	<u></u>	<u></u>

### 3. GROUNDWATER PATHWAY

A. Population served by private wells or drinking water supplies within the designated area rings. Note if the water supplies within that ring are private (P), community (C) or both (B). (reference with water supply distribution maps and topographic maps using the average county population density)

<u>Distance</u> (miles)	<u>Population</u>	<u>Type of Supply (P.C. or B)</u>
0 - 1/4	<u>0</u>	<u>                    </u>
1/4 to 1/2	<u>0</u>	<u>                    </u>
1/2 to 1	<u>43</u>	<u>                    </u>
1 to 2	<u>4,214</u>	<u>                    </u>
2 to 3	<u>1,765</u>	<u>                    </u>
3 to 4	<u>5,470</u>	<u>C</u>

Reference 2, 3.

B. Are any of the supplies to the population noted above contaminated?       Yes   X  No

If yes:

- What is the location of the well? Not Applicable.
- What are the contaminants detected? Not Applicable.
- Are any health-based benchmarks exceeded (e.g., MCLs)?  
      Yes   X  No

C. What is the distance to the nearest drinking water well?  
  0.3   miles (will be verified during sampling inspection).

D. What is the depth to groundwater on the property?  
  35   feet

Reference 4, 5.

#### 4. SURFACE WATER PATHWAY

A. Identify the surface water bodies and flow rates (cubic feet per second, cfs) along a 15 stream-mile pathway. Identify the uses of each surface water body as:

DW = drinking water

I = irrigation of commercial food crops or commercial forage crops

L = watering of commercial livestock

FP = ingredient in commercial food preparation

R = major or designated recreation area

F = fishery

<u>Surface Water Body</u>	<u>cfs</u>	<u>Use(s)</u>
Unnamed Creek	Intermittent	N/A
Walnut Creek	Intermittent	N/A

Note: The surface water pathway has been eliminated due to intermittent streamflow for a distance of greater than 2 miles from the site.

Reference 6.

B. Identify the population served by surface water intakes along the 15 stream-mile pathway.

<u>Surface Water Body</u>	<u>cfs</u>	<u>Use(s)</u>
---------------------------	------------	---------------

Not applicable.

C. Are any of the intakes to the population noted above contaminated?     Yes   X  No

If yes:

- What is the location of the intake? Not Applicable.
- What are the contaminants detected? Not Applicable.
- Are any health-based benchmarks exceeded (e.g., MCLs)?  
    Yes   X  No

D. Are there any fisheries along the 15 stream-mile pathway that are contaminated?     Yes   X  No

If yes:

- What is the location of the fishery? Not Applicable.
- What are the contaminants detected? Not Applicable.



- Are any health-based benchmarks exceeded (e.g., MCLs)?  
     Yes        X   No

E. Identify sensitive environments noted on PA Table 5, along the 15 stream-mile pathway and note the surface water body it is on.

Sensitive Environment

Surface Water Body

Not Applicable.

F. Are there any sensitive environments along the 15 stream-mile pathway that are contaminated?      Yes        X   No

If yes:

- What is the location of the sensitive environment?  
Not Applicable.
- What are the contaminants detected? Not Applicable.

G. What is the distance to nearest surface water body?  
Not Applicable.

H. What is the flood frequency of the nearest surface water body? Not Applicable.

## 5. SOIL EXPOSURE PATHWAY

A. What is the number of people who reside on the property or within 200 feet of contamination who occupy a residence, attend a school, or attend a day care center? Zero.

B. What is the number of workers on the property and at a workplace within 200 feet of contamination? Zero.

## 6. AIR PATHWAY

A. Population residing within the designated area rings. (reference with topographic maps using the average county population density for populations from 0 to 1/2 mile, and with GEMS for 1/2 to 4 miles)

<u>Distance (miles)</u>	<u>Population</u>
0 - 1/4	0
1/4 to 1/2	0
1/2 to 1	43
1 to 2	4,214
2 to 3	1,765
3 to 4	5,470

B. Determine the wetland acreage for the following rings:

<u>Distance (miles)</u>	<u>Total Wetland Acreage</u>
0 - 1/4	6.7
1/4 to 1/2	7.4
1/2 to 1	21.4

Reference 7.

## References

1. City of Athens Landfill, Site Reconnaissance Photographs, Fluor Daniel, Inc., May 13, 1993.
2. GEMS Program Computer Printout of Census Data for Henderson County, Texas.
3. City of Athens, Texas, Existing Potable Water Mains, Overall Layout, provided to Fluor Daniel, Inc. by Mr. Don Herriage, City of Athens Assistant City Manager.
4. Site Reconnaissance Field Notes of May 5, 1993 prepared by Mr. Mark A. Mc Donnell of Fluor Daniel, Inc.
5. Reference 1.
6. United States Department of Interior, Geologic Survey, 7.5 Minute Series Topographic Map for Stockard, Texas, Provisional Edition, 1984.
7. United States Department of Interior, Fish and Wildlife Service, National Wetlands Inventory Maps for Mallard Hill, Texas, February 1980.

**ATTACHMENT D**  
**CERCLA ELIGIBILITY QUESTIONNAIRE**

**CERCLA ELIGIBILITY QUESTIONNAIRE**

**Site Name:** City of Athens Landfill (Malakoff Road)

**City:** Athens      **State:** Texas

**EPA ID Number:** TXD 980626352

**I. CERCLA ELIGIBILITY**

**YES**

**NO**

Did the facility cease operations prior to November 19, 1980?

  X  

If answer YES, STOP, facility is probably a CERCLA site.

If answer NO, Continue to Part II.

**II. RCRA ELIGIBILITY**

Did the facility file a RCRA Part A application?

If YES:

1. Does the facility currently have interim status?
2. Did the facility withdraw its Part A application?
3. Is the facility a known or possible protective filer? (facility filed in error)
4. Type of facility:  
Generator        Transporter        Recycler         
TSD (Treatment/Storage/Disposal)

Does the facility have a RCRA operating or post closure permit?           

Is the facility a late (after 11/19/80) or non-filer that has been identified by the EPA or the state? (facility did not know it needed to file under RCRA)           

If all answers to questions in Part II are NO, STOP, the facility is a CERCLA eligible site.

If answer to #2 or #3 is YES, STOP, the facility is a CERCLA eligible site.

CERCLA ELIGIBILITY QUESTIONNAIRE cont.

If answer #2 or #3 is NO and any OTHER answer is YES, site is RCRA, continue to Part III.

**III. RCRA SITES ELIGIBLE FOR NPL**

YES

NO

Has the facility owner filed for bankruptcy under federal or state laws? \_\_\_\_\_

Has the facility lost RCRA authorization to operate or shown probable unwillingness to carry out corrective action? \_\_\_\_\_

Is the facility a TSD that converted to a generator, transporter or recycler facility after November 19, 1980? \_\_\_\_\_

**ATTACHMENT E**  
**ADDENDUM TO HASP**

## **ADDENDUM TO HASP**

This attachment is an addendum to the Original Health and Safety Plan for the Site Inspections, prepared by Fluor Daniel and dated June 8, 1992. It contains additional site specific information related to the site conditions.

**Chemical Hazards** - Modified level C personal protection will be required during water well sampling due to unknown chemical hazards. The breathing zone will be monitored for air quality. Prior to soil sampling, the air will be monitored in the vicinity of the sampling locations for organic vapors.

**Physical Hazards** - Physical hazards include walking on uneven ground, fire ants, heat stress, and working around bulging and leaking drums. Each sampling team member should be cognizant of these site specific physical hazards.

**Compliance Agreement** - A compliance agreement is attached and will be signed by all sampling team members.

**Air Monitoring** - A properly calibrated HnU will be used to monitor the breathing zone. A one ppm action level will be used to guide the sampling team on whether or not to don full face respirators.

**Emergency Response Procedures** - A list of emergency phone numbers, site layout map and a route to the hospital map is attached.

## COMPLIANCE AGREEMENT

I, \_\_\_\_\_, have read the Original Health and Safety Plan for Site Inspections dated June 8, 1992 and this addendum, and hereby agree to abide by the provisions of the plans and aid in their implementation. I understand that it is in my best interest to see that the site operations are conducted in the safest manner possible; therefore, I will be alert to site health and safety conditions at all times.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date



## **LIST OF EMERGENCY PHONE NUMBERS**

For fire, medical police and sheriff dial 911.

### **ROUTE TO THE HOSPITAL**

Hospital Name: East Texas Medical Center - Athens  
Address: 2000 South Palestine  
Athens, Texas 75751  
Phone: (903) 675-2216

Directions: From Malakoff Road go east back into town. Turn left on Aaron and right on Corsicana, which is Highway 31. Proceed into downtown and turn right (south) on highway 19, which is South Palestine. The hospital is approximately 6 miles south on the outskirts of town. See the attached map.

